

SINVAC ROTO

PRODUCT GUIDE

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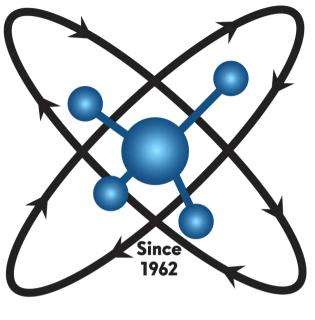


10 YEAR WARRANTY:



INFO@SINVAC.CO.ZA WWW.SINVAC.CO.ZA 012 386 6484

132 BESSEMER STREET, PRETORIA WEST,



SINVAC ROTO

LETS GO BACK IN HISTORY

SINVAC ROTO is the oldest roto-moulder in South Africa and was established in 1962 in Pretoria West on the existing site by Mr. Lightbody and Greek partners. The name "Sinvac" was derived from the objective to produce the roto-moulded products and 'SIN" was derived from the sintering process which is part of roto-moulding. Manufacturing equipment was largely imported from the Netherlands and some were added over the years. In 1983 it became BONAR SINVAC PLASTIC and part of the international Bonar Industries group. Bonar later disinvested and in 1993 Dr. Hans Luthy bought the business and managed it up to 2003 when it was sold to the existing owners. Dr. Luthy remained with the business up to February 2005.

The history and good name of Sinvac Roto continue into the entity SINVAC ROTO (Pty) Ltd owned by a group of engineers, employees and BEE shareholders. The main focus of this entity is the marketing, manufacturing and distribution of roto-moulded and other plastic products in South Africa and other countries. The majority of the manufacturing is done in the manufacturing entity which had to be redesigned, reconfigured and new technology was also introduced and quality systems upgraded. SINVAC ROTO operates as part of a group specialized in raw material manufacturing, plastic extrusion, plastic and steel fabrication, mining projects and other industrial activities.

SINVAC's vision is to provide quality products and solutions to its customers. World-class manufacturing standards and innovative production techniques allow SINVAC to provide products to customer requirements. SINVAC caters to a boutique that produces for the requirements of small orders but also has the capacity to deliver big-volume contracts. Lead time in the boutique section of Express Lane. SINVAC hosts and/or owns a total of about 450 moulds. Many of these are custom moulds for specific customers and are not shown in the brochure or at the Factory Shop. The popular items are kept in stock for even shorter lead times than above and on special arrangements with customers, the stock is kept for them. Deliveries in the Johannesburg and Pretoria area are made on a regular basis for customers convenience.

SINVAC operates from the factory premises in Pretoria West and has a Sales & Marketing team, Factory Shop and a full production unit based there. Visit the factory shop as you can interact with the Sales & Marketing team as well as the technical and manufacturing team. You can also view the existing product range and our experienced staff can help you to create your own custom product.

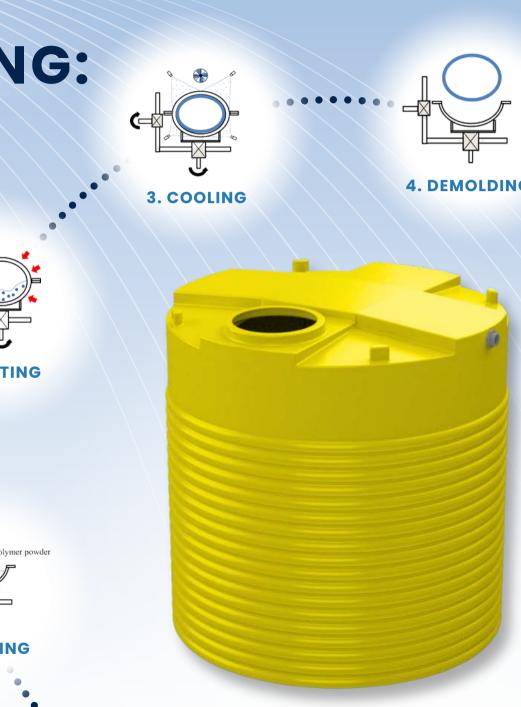
THE PROCESS OF ROTATIONAL MOULDING:

The manufacturing method entails the introduction of a quantity of plastic raw material in a powder form into a hollow mould. The mould is then rotated around two axes whilst it is heated. The rotation is at low speeds.

Once the raw material or plastic is heated in the enclosed mould it adheres to the mould surface in what is called a monolithic layer.

To ensure the desired mould shape is maintained the rotation of the mould continues throughout the cooling process.

When the plastic cooled and is adequately stiff, the product is ready for removal from the mould.



2. HEATING

1. CHARGING

WHY ARE ROTATIONAL MOULDED TANKS MADE FROM LLDPE?



Low input cost for mould/tool manufacturing.



High impact resistance.



High resistance to chemicals.



Colour Pallet

1. TA 0

Z

1. TANKS

- Septic Digester tanks
- Horizontal tanks
- Water tanks

2. CHEMICAL AND INDUSTRIAL

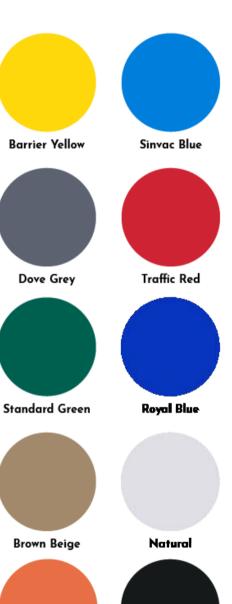
- Chemical Tanks
 - Straight sides / loose lids
 - Enclosed / Step tanks
 - Fuel tanks
 - Chemical tanks
- Containers/Bins
 - Bins Electroplating
 - Waste & Enviromental bins
 - Stackable bins
 - Nesting bins and trays
- Traffic Management
- Hoppers
- Lockers
- Aquaculture
 - Large rectangular tanks
 - Tubs
- Logistics/Storage
 - Pallets
 - Cargo protectors
 - ICC intermediate chemical containers

3. PETS AND AGRICULTURE

- Agriculture
 - Sheep/Nyala Feeder
 - Sable Gravity Feeder
 - DT10 Water Trough
 - DT30 Water Trough
 - DT500 Water Trough
 - DBL4 Drinking Bowl
 - DBL Drinking Bowl
 - Cattle Foot Bath
 - Sheep Foot Bath
 - Wheelbarrow
- Pets
 - Igloo Kennel (5 Sizes)
 - Tuscan Kennel (4 Sizes)
 - Dog On Tap Water Drinker
 - Water Fountain
 - K9 Vendor 8Kg
 - Fly Cosy Kennel (2 Sizes)

4. PRODUCTS DESIGN AND DEVELOPMENT





Pitch Black

Danger Orange

T TH B TM H

Product codes Tanks

Horizontal tanks

Traffic management

Bin/container

Hopper

Lid

1. TANKS

Benefits of Rotational Moulding:

Within this industry, horizontal tanks are used to store and transport liquid fertiliser chemicals, water, and other liquid agricultural chemicals such as pest control applications. Horizontal tanks are typically smaller sized tanks.



BELOW GROUND SEPTIC TANKS

CAPACITY IN LITRES	DIMENSIONS IN MM DIAM × HEIGHT
1000	1478 x 1050 x 1107
1500	1647 x 1103 x 1210
2400	1670 x 1309
3000	1700 × 2000
4000	1700 x 2150
5000	2000 × 2020

HORIZONTAL TANKS DIMENSIONSIN MM CAPACITY IN LITRES DIAM × HEIGHT , SUMP (APPROX) D 420 x 840 long + sump 40mm 100 D 500 x 840 long + sump 25mm HORIZONTAL TANKS 150 Hexagonal 710 x 535 x 480 150 D 600 x 1300 long + sump 25mm 300 Hexagonal 1285 x 545 x 700 500 Hor 1140 x 840 + 25mm sump 600 D 750 x 1475 long + sump 25mm 600 D 1000 x 1360 long + sump 25mm 1000 1100 x 1000 x 1000 650 ORIZONTAL TANKS WITH BASE LEGS 1478 x 1050 x 1107 1000 1000 1478 x 1050 x 1107 1478 x 1050 x 1107 1000 1648 x 1103 x 1210 1500 1648 x 1103 x 1210 1500 1648 x 1103 x 1210 1500



FUEL/WATER TANKS

CAPACITY IN LITRES	DIMENSIONS IN MM DIAM x HEIGHT
28 33 Jeep 33 35 with spout 46 50 55 56 64 69 Pentagon 70 75 80 80 80 82 90 90 95 100 130 260 300 360	
560 560 560	1200 x 700 x 700 1440 x 614 x 662

WATER TANKS

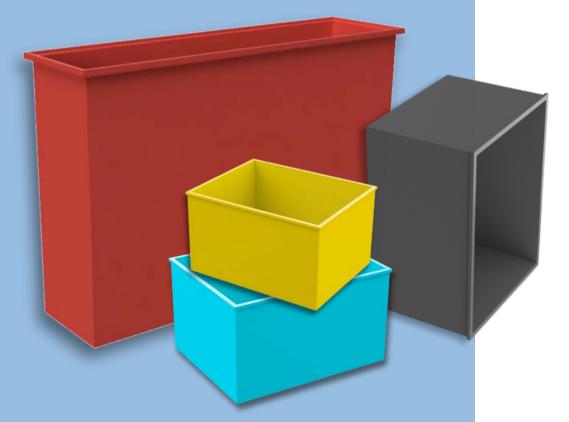


CAPACITY IN LITRES	DIMENSIONS IN MM DIAM × HEIGHT
300	765 x 815
500	865 x 1055
1000	835 x 2075
1200	940 x 1760
1000	1115 × 1260
2200	1335 × 1635
2700	1485 x 1780
5000	1815 x 2030
10 000	2306 x 2665

2. CHEMICAL AND INDUSTRIAL

Benefits of Rotational Moulding:

Corrosion resistance : Simply put, plastic cannot rust. Even stainless steel products are susceptible to rust in welded spots.





STRAIGHT SIDES AND LOOSE LIDS

DESCRIPTION	CAPACITY IN LITRES	DIMENSIONS IN MM DIAM × HEIGHT
27L Rectangular Bin 31L Rectangular Bin & Lid 32L Rectangular Bin 34L Rectangular Bin 42L Rectangular Bin 56L Rectangular Bin 79L Rectangular Bin 79L Rectangular Bin 100L Rec Tray - Z-shape - 10cm H 100L Rec Tray - Z-shape - 10cm H 100L Rec Tray - Z-shape - 15cm H 100L Rec Tray (no lid) - U-shape 113L Rectangular Bin 120L Rectangular Bin 120L Rectangular Bin 120L Rectangular Bin 120L Rectangular Bin 120L Rectangular Bin 375L Rectangular Bin 375L Rectangular Bin 450L Rectangular Bin 450L Rectangular Bin 450L Rectangular Bin with lid 450L Rectangular Bin 450L Rectangular Bin with lid 450L Rectangular Bin with lid 450L Rectangular Bin with lid 450L Rectangular Bin with lid 450L Rectangular Bin With ribs 720L Rectangular Bin With ribs 720L Rectangular Bin 750 Rectangular Bin 1000L Rectangular Bin +3kg	27 31 32 34 42 56 58 79 79 98 100 100 100 100 100 100 100 10	DIAM x HEIGHT $465 \times 110 \times 625$ $405 \times 260 \times 300$ $570 \times 340 \times 180$ $450 \times 325 285$ $550 \times 450 \times 195$ $615 \times 315 \times 335$ $580 \times 350 \times 320$ $570 \times 450 \times 330$ $570 \times 450 \times 330$ $820 \times 320 \times 400$ $1420 \times 760 \times 100$ $1270 \times 640 \times 155$ $705 \times 560 \times 388$ $560 \times 440 \times 460$ $840 \times 840 \times 200$ $600 \times 350 \times 600$ $700 \times 300 \times 800$ $480 \times 480 \times 810$ $600 \times 600 \times 635$ $1500 \times 720 \times 220$ $1050 \times 610 \times 610$ $1000 \times 702 \times 1025$ $1375 \times 600 \times 550$ $1200 \times 750 \times 820$ $1110 \times 650 \times 1100$ $1500 \times 1000 \times 680$
1000L Rectangular Bin +3kg 1000L Rectangular Bin - correct 1000L Rectangular Bin (with lid) 1000L Square Bin (with lid) - correct 1500L Rectangular Bin 2200L Rectangular Bin 5000L Rectangular Bin	1000 1000 1000 1500 2200 5000	1500 x 1000 x 680 1500 x 1000 x 680 1500 x 1000 x 680 1000 x 1000 x1000 2500 x 600 x 1000 2000 x 1000 x 1100 4500 x 1000 x 1100
U U	I	I

ENCLOSED TANKS

STRAIGHT SIDES AND LOOSE LIDS



FUEL TANKS FOR BOATS

CAPACITY IN LITRES	DIMENSIONS IN MM DIAM × HEIGHT	CAPACITY IN LITRES	DIMENSIONS IN MM DIAM x HEIGHT	CAPACITY IN LITRES	DIMENSIONS IN MM DIAM × HEIGHT
22 45 70 115 135 185 230	343 x 280 343 x 545 385 x 615 545 x 535 545 x 625 545 x 845 545 x 1045	22 45 54 70 100 100 115	$\begin{array}{rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr$	70 75 95 100 105 150	930 x 460 x 180 910 x 450 x 200 1140 x 450 x 200 1190 x 460 x 190 1210 x 550 x 190 1210 x 550 x 260
250 315 450 565 1000 1300	550 x 1100 600 x 1 090 750 x 1080 915 x 915 1 180 x 1 000 1 165 x 1300	135 185 200 230 250 300	545 x 650 545 x 870 545 x 935 545 x 1070 700 x 700 700 x 900	CHEMICAL CAPACITY IN LITRES	TANKS DIMENSIONS IN MM DIAM × HEIGHT
2000 3000 3000 4500	1 270 x 1850 1400 x 2360 1400 x 2360 1700 x 2430	315 450 565 570 680	600 x 1090 740 x 1100 915 x 915 890 x 970 915 x 1100	300 300 500 500 1000	765 x 815 765 x 815 865 x 1055 865 X 1055 1115 x 1260
STEP TAN	IKS	1000 1300 2000 3000	1180 x 1000 1165 x 1245 1270 x 1850 1400 x 2000	1000 2200 2200 2700	1115 x 1260 1115 x1260 1335 x 1635 1335 x 1635 1485 x 1780
CAPACITY IN LITRES	DIMENSIONS IN MM DIAM × HEIGHT	3000 3000 4500	1400 x 2000 1400 x 2000 1700 x 2000	2700 5000 5000	1485 x 1780 1815 x 2030 1815 x 2023
120 235 500	510 x 750 (+step 70) 570 x 950 (+ step 70) 745 x 1210 (+ step 70)	4500 4500	1700 x 2000 1700 x 2000	10 000 10 000	2306 x 2665 2306 x 2665

SG = Specific gravity

TAKE NOTE: Any tank can be made SG 1.4 or SG 1.6 by just adding more plastic.



YOUR

DESIGN

HERE

ELECTROPLATING BINS

DESCRIPTION	CAPACITY IN LITRES	DIMENSIONS IN MM DIAM × HEIGHT
34L Rectangular Bin (with lid) 140L Rectangular Bin (with lid) 230L Rectangular Bin (with lid) 400L Rectangular Bin (with lid) 448L Rectangular Bin (no lid) 450L Rectangular Bin (no lid) 500L Rectangular Bin (with lid) 670L Rectangular Bin (no lid) 1000L Rectangular Bin with Lid 1500L Rectangular Bin (no lid)	34 140 230 400 448 450 500 670 1000 1500	$\begin{array}{c} 450 \times 325 \times 285 \\ 540 \times 440 \times 620 \\ 1100 \times 480 \times 485 \\ 930 \times 500 \times 900 \\ 800 \times 700 \times 800 \\ 1375 \times 600 \times 550 \\ 1120 \times 710 \times 725 \\ 2000 \times 350 \times 960 \\ 1500 \times 1000 \times 680 \\ 2500 \times 600 \times 1000 \end{array}$



CAPACITY IN LITRES	DIMENSIONS IN MM DIAM × HEIGHT
15	460 x 300 x 150
25	490 x 260 x 220
33	385 x 385 x 280
52	385 x 385 x 419
72	675 x 360 x 330
105	710 x 510 x 315
115	915 x 450 x 300
134	910 x 510 x 315
135	1100 x 260 x 485
195	800 x 500 x 450
230	1100 x 480 x 485
325	915 x 600 x 635
400	930 x 500 x 900



WASTE & ENVIRONMENTAL BINS

APACITY IN LITRES	DIMENSIONS IN MM DIAM × HEIGHT
240 400	580 x 725 x 1075 590 x 590 x 1100
	240



DESCRIPTION	CAPACITY IN LITRES	DIMENSIONS IN MM DIAM × HEIGHT
30 L Nesting Bin	30	610 x 570 / 405 x 365 / 160
69L Nesting bin	69	875 x 825 / 495 x 445 / 175
125L Nesting bin	125	750 x 650 / 750 x 650 / 250
200L Nesting bin	200	1415 x 495 / 1310 x 435 / 330
200L Nesting bin	200	810 x 530 / 685x 450 / 550
225L Nesting bin	225	750 x 750 / 650x 650 / 250
300L Nesting bin	300	1 020 x 540 / 940 x 480 / 650
375L Nesting Bin	375	965/865 x 710/610 x 705
Sinvac Laundry Bin (Medium)	230	970 / 770* x 670 / 470 x 640
Sinvac Laundry Bin (Large)	230	1300 x 700 x 590



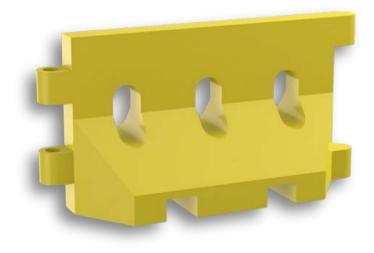
DESCRIPTION	DIMENSIONS IN MM DIAM x HEIGHT
2m Pontoon Square Pontoon 1.2m Pontoon Small Drum Pallet 512mm Bouy Ball Rectangular Pontoon	2160 x 600 1200 x 1200 x 490 1200 in length x 500 1050 x 590 x 220 590 x 890 x 1100





TRAFFIC MANAGEMENT

	DESCRIPTION	DIMENSIONS IN MM DIAM × HEIGHT
CONES	1.8m Cone Im Cone 75cm Stackable Cone 90cm Cone with Ad space 45cm 3 Sided Traffic Cone Traffic Sign Cone Cap	800 x 1800 600 x 1000 290 x 750 400 x 900 250 x 250 695 (dia) x 185 x 990
BARRIERS	1 meter Stackable Economic Barrier Stackable Economic Barrier Link New Jersey Stackable and Water Filled Eco Light Water Filled / Non-stackable Barrier Eco Light Stackable / Non-waterfilled Barrier 90 Degree Road Barrier Bullnose Bullnose Extention	1000 x 500 x 900 1100 x 200 x 500 1600 x 650 x 900 1600 x 650 x 900 1600 x 650 x 900 2000 x 600 x 950 1200 x 1400 x 1000 800 x 1400 x 1000







CAPACITY IN LITRES	DIMENSIONS IN MM	DESCRIPTION
50	430 x 630 deep	Fish Feeder Hopper with Lid
180	500 x 600 x cone 730	Hopper with conical base and 50mm outlet spout . With lid D135
320	700 x 638 x cone 636	25mm male treats at the cone lid. Ball valve.
480	900 x 900 x 375 + cone 695	Rectangular Hopper with D100 outlet flange.
680	1120 x 905 x 380 + cone 650	Rectangular Hopper outlet D 300
750	950 x 980 x cone 470(45 degr)	Hopper with conical base and 115mm outlet spout. With lid
1000	1220 x 800 x cone 450(45 degr)	Hopper, conical base, 50mm spout (male thread).
2000	1220 x 1800 x cone 450(45 degr)	Hopper, conical base, 50mm spout (male thread).
5000	2000 x 1900 x cone 414 (22.5 degr)	Hopper, conical base, 50mm outlet spout. 450mm manhole.

AQUACULTURE

RECTANGULAR

CAPACITY	DIMENSIONS IN MM	
IN LITRES	L X W X H	
1400	2550 x 900 x 600	
2800	4200 x 850 x 800	

ROUND

CAPACITY	DIMENSIONS IN MM	
IN LITRES	DIAM × HEIGHT	
500	AT500	
1500	AT1500U/	



		LOCKERS
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Silver frame

Black frame

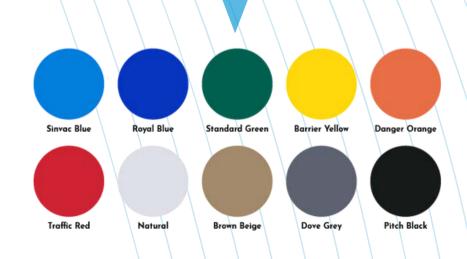
ITEMS	DESCRIPTION	MEASUREMENTS (Width × Height × Depth)	
FOOD LOCKER	COMPELTE FOOD LOCKER - FLAT TOP	310 X 300 X380	
FOOD LOCKER	COMPELTE FOOD LOCKER - SLANTED TOP	310 X 430 X 380	
CLOTHING LOCKER	COMPELTE FOOD LOCKER - FLAT TOP	310 X 940 X 380	
CLOTHING LOCKER	COMPELTE FOOD LOCKER - SLANTED TOP	310 X 1060 X 380	
CLOTHING LOCKER	CLOTHING LOCKER SHELF	-	
SPORTS LOCKER	SPORTS LOCKER	510 X 1530 X 525	
SPORTS LOCKER	SPORTS LOCKER SHELF	-	
TIERED LOCKER TIERED LOCKER TIERED LOCKER TIERED LOCKER	6 TIER LOCKER 4 TIER LOCKER 3 TIER LOCKER 2 TIER LOCKER	310 X 1940 X 380 310 X 1940 X 380 310 X 1940 X 380 310 X 1940 X 380 310 X 1940 X 380	

FITTINGS

SPINWELDS PE TANK CONNECTORS HOSE ADAPTORS GATE VALVE MANHOLES WITH SEAL STOPCOCKS REPAIRS/SERVICES/OTHER PLUGS HANDLES BALL VALVES NIPPLES SCREWCAPS WITH THREAD AND RUBBER SEAL



We can customize the colour of the lockers to match your company profile





LOGISTIC/STORAGE

CARGO POTECTOR

PRODUCT	DIMENSIONS IN MM HEIGHT LAST		
CARGO PROTECTOR	1000 X 200 200		
CARGO PROTECTOR	2000 X 200 X 200		



IBC - INTERMEDIATE BULK CONTAINER

CAPACITY	DIMENSIONS IN MM
IN LITRES	L X W X H
1000	1020 X 1020 X 1170 ICC WITH FRAME



PALLETS

SIZE IN MM	LOAD CAPACITY	SURFACE	ENTRY	PRODUCT WEIGHT
1200 X 1100	3 TONS	NO SLIP	FOURWAY: FORKLIFT AND PALLET JACK	23KG



3. PETS AND AGRICULTURE





AGRICULTURE products we offer:

- Sheep/Nyala Feeder
- Sable Gravity Feeder
- DT10 Water Trough
- DT30 Water Trough
- DT500 Water Trough
- DBL4 Drinking Bowl
- DBL Drinking Bowl
- Cattle Foot Bath
- Sheep Foot Bath
- Wheelbarrow



SINVAC PETS

PETS Products we offer:

- Igloo Kennel (5 Sizes)
- Tuscan Kennel (4 Sizes)
- Dog On Tap Water Drinker
- Water Fountain
- K9 Vendor 8Kg
- Fly Cosy Kennel (2 Sizes)

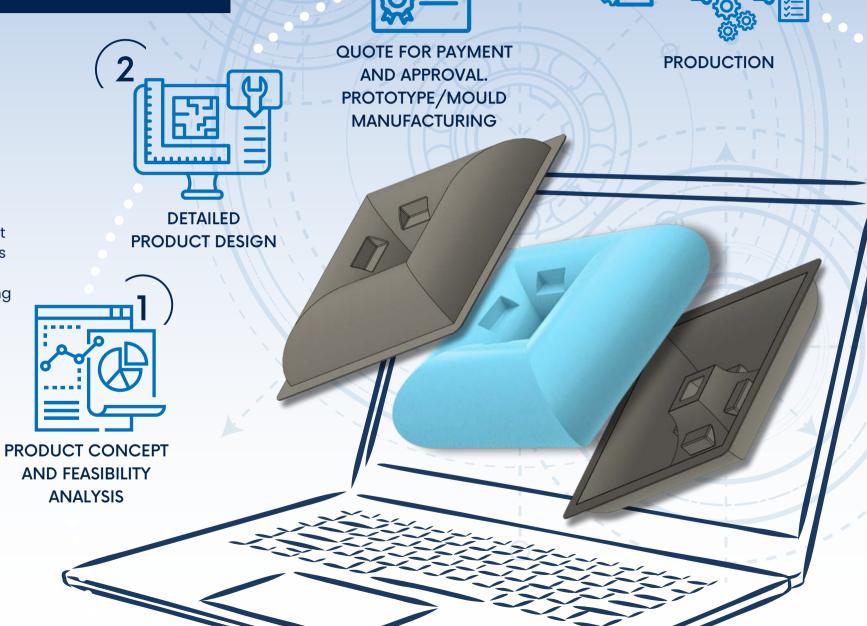
4. PRODUCT DESIGN AND DEVELOPMENT

WHAT IS PRODUCT DEVELOPMENT?

Product development encompasses the comprehensive journey of transforming a concept or idea into a tangible product ready for market release and subsequent evolution. It involves a multifaceted process that integrates research, design, prototyping, testing, refinement, production, marketing, and ongoing adaptation. In essence, product development embodies the intricate path from inception to fruition, embodying the vision, innovation, and iterative refinement that characterize the creation of impactful products.

DID YOU KNOW?

We have acquired a 3D printer to help you with visualizing your new product without the need to manufacture a physical mould.





THE FOLLOWING CONDTIONS APPLY:

- The warranty is limited to our roto moulded LLDPE tanks/products.
- Products/tanks are guaranteed to be free of manufacturing defects.
- The warranty on the tanks is subject to the correct INSTALLATION (see instructions below).
- Any damage sustained during transportation, storage and installation is not covered by the warranty. Liability for other losses or subsequent damages is excluded.
- Any product modifications are not covered.
- The tanks are designed to be used for water and chemicals that have a specific gravity suitable for the tank.
- Any liquid poured into the tank must be compatible with LLDPE used in making the tanks. The salesperson will advise upon request. We recommend that customers carry out the relevant test to ensure that the plastic resin is compatible with the intended application. We have no control over the chemistry of the plastic, which in its nature is not stable, we do take every care to ensure that the raw materials used are of high quality from reputable sources.
- The warranty is limited to:
- Applications where the liquid contents do not exceed 40°C.
- All vertical tanks are too used stationary when filled. They are not to be moved when filled, i.e. they must be emptied before moved.
- The replacement of the tank is only at the discretion of Sinvac Pty Ltd. Transport to and from Sinvac and any other structural costs are for the buyer's account.
- To any repairs done by Sinvac personnel only.
- Correct fittings are used-no steel or iron fittings or connectors are to be used.
- The polyethylene used has a design UV protection of 8 years.
- Sinvac Pty Ltd, its employees, subsidiaries, contractors, and the like are hereby indemnified by the customer for any damages suffered, of whatsoever nature in the collection, delivery, installation and/or utilization of the tanks.
- All claims made in the guarantee period require proof of purchase.

GENERAL LIFE EXPECTANCY FOR WATER & CHEMICAL TANKS:

- When properly installed the tank's life expectancy can reach up to 25 years and more. There have been several cases of tanks reaching 30 years and older. Better manufacturing techniques throughout the years have enabled prolonged life expectancy.
- By increasing the wall thickness of your tank, you prevent the decaying process against any approved fluids being used.

INSTALLATION INSTRUCTIONS:

- The correct fittings are to be used. No steel or iron fittings or connectors. The fittings should also be suitable for the liquid in the tank.
- The tank shall be mounted on a level, firm base with no overhang and be strong enough to carry the FULL weight.
- The tank may not be mounted on a sand or ground base but on a firm, level strong concrete or similar base.
- The base beams should be strong enough, no more than 50 mm apart, and should be treated against weathering.
- The stand should be firmly placed and strong enough to carry the weight of the full tank.
- The tank shall be adequately secured to the stand but not distorted the tank.
- The pipes attached to the fittings shall be firmly secured and not hang on the tank. They should also be supported.
- The in-flow rate should not exceed the out-flow or overflow rate.







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SinvacPlasticsSince1962 sinvac-group-of-companies

sinvac_pty



PLACE YOUR ORDER

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Head of Product development Sebastian Heunis		076 513 1752	sebastian@sinvac.co.za
Product Inge Kemp development		071 232 5437	inge@sinvac.co.za

Recommended steps to follow:

- 1. Make sure of your requirements and application.
- 2. Select product from the brochure.
- 3.Phone or email Sinvac marketing for prices/quotes.
- 4. Order invoice will be emailed.
- 5.Order confirmation- Sinvac then will confirm a production completion date.
- 6.Normal lead time of 5-7 working days for standard products.
- 7. Ask about the Express Lane for urgent orders.
- 8. Delivery in Pretoria and Johannesburg could add 5 working days; depending on delivery schedules.

Enquire about special delivery for areas outside Gauteng.



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